

DEC 02 2002

SEQUENCE LISTING

(I) GENERAL INFORMATION:

- (i) APPLICANT: ZENECA LIMITED , . .
- (ii) TITLE OF INVENTION: GENE SILENCING

(iii) NUMBER OF SEQUENCES: 3

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: IP DEPT., ZENECA AGROCHEMICALS

(B) STREET: JEALOTTS HILL RESEARCH STATION,

(C) CITY: BRACKNELL,

(D) STATE: BERKSHIRE

(F) ZIP: RG42 6ET

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: GB NOT KNOWN

(B) FILING DATE:

(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 01344 414822

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3681 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iv) ANTI-SENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: 1-AMINO CYCLOPROPANE-1-CARBOXYLIC ACID

OXIDASE

(vii) IMMEDIATE SOURCE:

(B) CLONE: pTOM13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

AAATTTGATA GATTCAAGTTT TTATGTTTT AGTGCTGATT ACAACATTGA AATTCTAAAT 60

TTAGAATTAA ATATTTATTA AATGTTAGTG CATTATACA AATAACATAT
TACATCTCAA 120

TTTAGGAAAA GGTGGTGAAT TGACTATTCT TTTTTGGTA GGAAAAGTT
TAGGACTCTA 240

TAAATAGAGG CATGTTCCCTT CTAACCTAAC TAGCATTAC AATGAGTTT
TAAGGGCTTT 300

GAGAGTTTG GTTAGAGGGA GAATTGTGA ACCTCTCATG
TATTCCGAGT GAATTGGTTG 360

AGGTGTTTC CCTCTGTATT TTGTAACCTC ATGTTATAG TGGATTGCTC
ATTCCTTTG 420

TGGACGTAGG TCGATTGACC GAACCACGTT AAATTTTGT GTCTTTGTT
ATATTCCTG 480

TTCTTCTTAC TCGGGTCTT TCGAGGTTTG CTTGCTAGC TICCGCGTTT
ACACCTGCTT 540

ATTTTCGGTC CTAACAAGTG GTATCAGAGC CAGATTCAAT
AATGGAGTCA GGTGTAGTGG 600

TTCGATAATC GATGATTGAA CCAAGTTAGA AAGAGGTGTT
CATCTTGACG GGTGTAGTTC 660

TAGCCGCAAC CTTTGACA GTAATGAAGA TTTGATGGA GAAATTGTTT CAGAGAGTT
720

CTCTGTGTTG AGACATAAAT TTTGAAAGG AGATTATGGA
GAGGAGAAGC AAGTTGTTGA 780

AGATTAAGTA AAGAAGGTGG ACAAATCTAT TTTGTCAGAA
ATTCAGGCCA AGGGGGAGAT 840

TTGTTGGGTT TTATTTGCCCTGATTTTTA CCATAAAATAG GTTTTTTTT
AAGGAAAAGG 900

TTTGAAATTG ACTATTCTT TTTGGTAGG AAAAGGTTA GGATTCTATA AATAGAGGCA
960

TGTTCTCTACT AACCTAATTAGCATTACAA TGAGTTTA AGGGCTTTGA

TAGAGGGAGA ATTTGTGAAC CTCTCATGTA TTCCGAGTGA
ATTGGTTGAG GTTGTTC 1080

TCTGTATTT GTACTCTCAT GTTTATAGTG GATTGCTCAT TICCTTGTG
GACGTAGGTC 1140

GATTGACCGA ACCACGTTAA ATCTTTGTGT CTTTGGTAT ATTTCTCGTT
GTCTTCTTAC 1200

TCGTGGTCTT TCGAGGTTTG CTTTGCTAGC TTCCGCGTT ACACCTGCTT
ATTTGCGGTC 1260

CTAACAGAGT TCGATGGTT GAATCTATAA AAAGAAAAAT ATACTCGTGA
TTCACGATTA 1320

TTTATATGAA AATATAATAA ATATTGAATT TCCTTGCTA TTTCTATGT
TTACGTCTT 1380

ATATTCAAA TTATTCCACC AATACTGACA AGCCCTAGGC
CATCTCTAGG AAATTCATAC 1440

AATTTTTTT TTGTTGTTAA CTAGTAAAT TGGCAGCCTT AAAGATTATT
GTAAAATTCA 1500

AGGCAACTTC CTCAAGTACT ACAACTACAT TGTAACATCC
CAGTCAAAGT GTCCTAAAAT 1560

TTTATAAAAT TTGACACATG AAACAATAGC ACAATAAATT
TTAGTACTAT TGCAGCCATG 1620

GCCCATAAGC CATCATGTAT TATAGTCAAA ATGGGTCTT
TTCCAATTG TCTTGATCCC 1680

AAAATCCCTT TGTAAGTAAG ATAGTAAAT AAGGAAATAT CAATTTAAAG TTAAATTT 1740

ACTCATAGAC TTGTCATAAC TCATAAAGAC TTGGAATATA
ATAATTATTC ATTTAAATTA 1800

TAATTCCTCA CTTTAATATC TTCTACTATA AATACCCCTT CAAAGCCTCA

ATCAAACATT GATATTCA TCCTCAATCT TTTGTATTCA CATATTCTAT
TTATTCAATA 1920

CACTTAGGAA AACACTTAC CAAGAAATTA AGATGGAGAA
CTTCCAATT ATTAACTTGG 1980

AAAAGCTCAA TGGAGATGAG AGAGCCAACA CCATGGAAAT
GATCAAAGAT GCTTGTGAGA 2040

ATGGGGCTT CTTGAGGTA ATCATAAATT ACATAAACAT
ATTAATATGT TTGTTCAAT 2100

TTATCAGTCA TACTTTCTC TGTTTAAAA TTAATGTCAC TTTCAATATT TAATAATTG
2160

CATGACATGT TTATAACACA ACAAGATATA GGTTACATT
TGATACATTA TATATAACTT 2220

CTGTCACACG ACTCAAAAGT CTTCTTAAT TTCTTGAATT CAATGATCGA
TCAAACTAAG 2280

ACACGTAAAA TGAAACGGGG AATAGTAATT CTGTTGCTT
ATGTGATCAT TGTAGTTGGT 2340

GAACCATGGA ATTCCACATG AAGTAATGGA CACAGTAGAG AAAATGACAA
AGGGACATTA 2400

CAAGAAGTGC ATGGAACAGA GGTTTAAGGA ACTAGTGGCA
AGTAAGGGAC TTGAGGCTGT 2460

TCAAGCTGAG GTTACTGATT TAGATTGGGA AAGCACTTTC
TTCTTGCGCC ATCTTCCTAC 2520

TTCTAATATC TCTCAAGTAC CCGATCTTGA CGAAGAATAC
AGGTACATAC ATGTGT_{CCTA} 2580

CATATTGCGT ATATAATAAA TAAACACAAA ATTTAAGTTA
TATACGCTGA CAGTATAACT 2640

AATTATAATG TTGTACCAAA TGATGCAGAG AGGTGATGAG

2640

AGAAATTGGC TGAGGAGTTA CTTGACTTAC TCTGTGAAAA
TCTTGGACTT GAAAAAGGTT 2760

ACTTGAAAAA TGCCTTAT GGATCAAAAG GTCCCAACTT TGGTACTAAA
GTTAGCAACT 2820

ATCCACCATG TCCTAAGCCC GATTGATCA AGGGACTCCG
CGCTCATACA GACGCAGGAG 2880

GCATCATACT TCTGTTCCAA GATGACAAAG TGAGTGGCCT
TCAACTCCTC AAAGACGAGC 2940

AATGGATCGA TGTTCTCCC ATGCGCCACT CTATTGTGGT TAAC_{CTTGGT}
GACCAACTTG 3000

AGGTACAAGA TTCACTAAGT GTGTGTGTT TTATCACTAT
AACTTAGAAG TAGTAACTAA 3060

AAATGGTATT AATGAAATGT TATAAAAACA GGTGATCACT
AACGGGAAGT ACAAGAGTGT 3120

GCTGCACAGA GTAATTGCAC AACAGACCG GACACGAATG
TCATTAGCCT CATTACCAA 3180

TCCA_{GGAAAGT} GATGCAGTAA TATATCCAGC AAAAACTTTG GTTGAAAAAG AGGCAGAGGA
3240

AAGTACACAA GTGTATCCAA AGTTGTGTT TGATGATTAC
ATGAAGTTAT ATGCTGGACT 3300

CAAGTTCAA GCCAAAGAGC CAAGATTGA AGCAATGAAG
GCAATGGAAA GTGATCCAAT 3360

TGCAAGTGCT TAGATCCCAA TTCAATTAAA AAAATTGGT TTGGAAAT
ATATTTAAAT 3420

ATAGCAATCT ATGTATACAC ATTATTGCT CTTCTATGT ATGGTAGAAT
AAAGTTAGTA 3480

TTAAAAAAAGA TTGTGATITG CTGCATATGT ATCAAAAAGA

AAATAAGGTG CCTTCTAGTG AAATTATACA AATAATAATT
TGGAGTGTAT TGTTCCTTCT 3600

CATGTAATTT AACCTTTAAG TATCTTACTT TACAATATAC TGTTCACTTA TTGAACATAT
3660

TGAGTGATAT ATTGACTCAA T 3681

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 22 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: oligo dT-primed cDNA - page 13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CATTCATCTC TTCAATCTT TG 22

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 26 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(B) CLONE: oligo dT-primed cDNA (SEQ3) page 13

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTTAATTCT TGGTAAAGTG TTTTCC 26